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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/751,232	01/02/2004	Samuel Achilefu	MRD / 57CP	2153
26875	7590 04/20/2006		EXAMINER	
WOOD, HERRON & EVANS, LLP			JONES, DAMERON LEVEST	
2700 CAREV 441 VINE ST	· · · · · · · · · · · · · · · · · ·		ART UNIT	PAPER NUMBER
CINCINNATI, OH 45202			1618	

DATE MAILED: 04/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/751,232	ACHILEFU ET AL.			
		Examiner	Art Unit			
		D. L. Jones	1618			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as not sof time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) <u></u>	Responsive to communication(s) filed on 2/10/2 This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	esecution as to the merits is			
Dispositi	on of Claims					
4) ☐ Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) 1-3 and 11-13 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 4-10 and 14-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>02 January 2004</u> is/are: Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex-	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 6/16/05; 5/25/04; + 7/2464; + 5					

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APPLICANT'S INVENTION

1. Applicant's invention is directed to compositions and uses thereof as set forth in independent

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claims 1-4 and 11-14.

Note: Claims 1-31 are pending.

RESPONSE TO APPLICANT'S ELECTION

2. Applicant's election of Group XX filed 2/10/06 is acknowledged. In addition, Applicant's election

of the species whereinW4 and X4 are sulfur; R25, R27, R28, R29, R31, R32, R33, and R35 are

hydrogen; R24, R26, R34, and R36 are SO3T; R30 is glucose; Y4 and Z4 is (CH2)3SO3T; a4 is 1; b4 is

2; V is single bond; and T is a negative charge. The election is viewed as one without traverse since

Applicant did not point out the supposed errors in the restriction requirement. Hence, the restriction

requirement is still deemed proper and is therefore made FINAL.

Initially, Applicant's elected species was searched. However, since no prior art was found to

reject Applicant's claims, the search was extended over the full scope of Group XX. In addition, it should

be noted that the restriction was modified to such that claims 4-10 and 14-31 make up Group XX. Hence,

Applicant is respectfully requested to cancel all subject matter not directed to the elected invention.

WITHDRAWN CLAIMS

3. Claims 1-3 and 11-13 were withdrawn from further consideration by the examiner, 37

CFR 1.142(b), as being drawn to a non-elected invention/species.

112 REJECTIONS (First Paragraph)

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process

of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in

the art to which it pertains, or with which it is most nearly connected, to make and use the same and

shall set forth the best mode contemplated by the inventor of carrying out his invention.

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5. Claims 4-10 and 14-31 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for glucose and for polyamino carboxylic acid, does not reasonably provide enablement for glucose derivatives of R groups and derivatives of polyamino carboxylic acid. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

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There are several guidelines when determining if the specification of an application allows the skilled artisan to practice the invention without undue experimentation. The factors to be considered in determining what constitutes undue experimentation were affirmed by the court in *In re Wands* (8 USPQ2d 1400 (CAFC 1986)). These factors are the quantity of experimentation; the amount of direction or guidance presented in the specification; the presence or absence of working examples; the nature of the invention; the state of the prior art; the level of skill of those in the art; predictability or unpredictability of the art; and the breadth of the claims. In particular, the specification fails to enable the skilled artisan to practice the invention without undue experimentation wherein any glucose derivatives of R groups and derivatives of polyamino carboxylic acid are utilized.

The disclosure of the present invention is drawn to compounds, compositions and uses thereof as set forth in independent claims 4 and 14 having formula 4. While a skilled artisan would be motivated to select a glucose or polyamino carboxylic acid as substitutents, the artisan would not know what glucose derivatives of R groups and derivatives of polyamino carboxylic acid Applicant is referring to which would be compatible with the instant invention. Hence, a skilled artisan in the art would not be able to readily ascertain the unlimited number of compound derived or obtained from glucose and polyamino carboxylic acids and containing essential elements of the parent substance. Thus, the skilled artisan would be forced to randomly test various glucose derivatives of R groups and polyamino carboxylic acid derivatives in order to determine which derivatives possess chemical properties which would yield similar results as that obtained when using glucose or polyamino carboxylic acid. Furthermore, the amount of guidance present in the specification fails to present the necessary instruction to determine what derivatives are encompassed by the claims.

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The specification does not provide guidance as to any specific substances which have the ability to behave as glucose derivatives of R groups or polyamino carboxylic acid derivatives nor does the specification disclose specific characteristics for such substances. In addition, the specification fails to provide guidance as to how any glucose derivatives of the R groups and polyamino carboxylic acid derivatives should be modified to generate the desired derivatives having properties compatible with the instant invention. No working examples are provided to provide such missing information. Without such information, one skilled in the art could not predict which substances out of the vast number of known substances and hypothetical substances are encompassed by Applicant's phrase "derivative" phrases. Therefore, due to the lack of guidance and the amount of experimentation required to identify any compounds that are glucose derivatives of R groups and polyamino carboxylic acid derivatives, substitutents other than glucose and polyamino carboxylic acid are not properly enabled by the instant specification.

112 REJECTIONS (Second Paragraph)

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 4-10 and 14-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrases "glucose derivatives of R groups" and "polyamino carboxylic acid or its derivative thereof" are indefinite because one of ordinary skill in the art would not be able to readily ascertain the vast number of compounds derived or obtained from glucose or polyamino carboxylic acid and containing essential element of the parent substance.

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Claims 4-10 and 14-31: The claims as written are ambiguous because Applicant has not defined

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the variable R in the phrase 'glucose derivatives of R groups' (see independent claim 4, line 11, and claim

14, line 10.

COMMENTS/NOTES

8. The claims of Group XX are distinguished over the prior art of record because the prior art neither

anticipates nor renders obvious compositions and uses thereof as set forth in independent claims 4 and

14.

9. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to D. L. Jones whose telephone number is (571) 272-0617. The examiner can normally be

reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Michael Hartley can be reached on (571) 272-0616. The fax phone number for the organization where

this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 1618

April 17, 2006